





PRELIMINARY REPORT  
INDUSTRY SERIES**1982**  
**Census of**  
**Construction Industries**CC82-I-12(P)  
Issued February 1984ELECTRICAL WORK SPECIAL TRADE CONTRACTORS  
(Industry 1731)

During 1982, the establishments with paid employees classified in this industry accounted for \$26.3 billion in total business receipts. Of this amount, \$25.8 billion were receipts for construction work. These establishments paid out \$10.4 billion for materials, components, supplies, and fuels and \$.7 billion for construction work subcontracted to others. This industry had total average employment of 444,315 employees with total payroll of \$9.2 billion. Value added for 1982 was \$15.1 billion.

Establishments classified in this industry are engaged primarily in electrical work at the construction site. This industry also includes electric heating contractors and establishments engaged in the installation of intercommunication equipment, sound equipment, burglar alarms, fire alarms, and telephones. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.

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**Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977**

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4)

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States .....	38 470	444 315	359 905	9 152 188	7 374 814	641 794	25 773 571	25 069 460
Alabama .....	442	4 601	3 677	63 730	49 983	6 509	206 542	200 867
Alaska .....	187	3 480	2 587	82 353	68 422	4 114	193 654	190 251
Arizona .....	613	6 136	5 046	112 753	90 760	8 940	354 638	344 226
Arkansas .....	314	2 222	1 779	34 033	26 253	3 197	108 159	105 421
California .....	4 233	46 415	36 415	1 137 992	905 846	61 551	3 346 810	3 213 673
Colorado .....	719	8 974	7 254	203 798	166 264	12 888	633 669	619 467
Connecticut .....	640	5 587	4 373	114 666	91 446	7 869	334 476	328 565
Delaware .....	132	1 247	1 053	25 549	22 065	1 904	61 285	60 163
District of Columbia .....	30	860	663	18 486	13 206	1 172	38 668	38 396
Florida .....	2 261	26 380	21 600	435 391	345 727	39 037	1 277 914	1 251 103
Georgia .....	823	11 850	9 955	218 362	179 645	18 778	618 199	588 819
Hawaii .....	194	1 362	1 080	32 680	25 245	1 874	116 419	112 822
Idaho .....	197	1 000	803	16 836	13 693	1 305	57 689	56 238
Illinois .....	1 515	20 157	16 130	550 330	443 749	29 292	1 313 918	1 275 608
Indiana .....	740	7 561	6 126	168 559	137 977	10 825	454 505	441 883
Iowa .....	546	3 274	2 575	62 285	48 490	4 653	182 629	178 230
Kansas .....	400	2 713	2 026	56 728	40 664	3 630	159 438	151 997
Kentucky .....	470	3 836	3 084	67 266	52 027	5 247	186 427	179 732
Louisiana .....	856	13 232	11 069	272 749	219 901	20 231	736 871	717 383
Maine .....	226	1 177	963	18 273	14 395	1 730	58 938	57 841
Maryland .....	708	9 486	7 724	181 761	148 725	14 392	572 724	560 520
Massachusetts .....	1 183	10 444	8 620	215 035	175 648	15 554	636 354	620 580
Michigan .....	1 257	10 835	8 592	241 138	189 569	14 352	741 577	720 097
Minnesota .....	932	7 927	6 191	181 485	144 920	10 901	508 461	501 812
Mississippi .....	295	2 285	1 826	34 574	27 053	3 249	97 567	93 537
Missouri .....	562	8 765	7 164	211 515	173 454	12 633	557 304	545 738
Montana .....	188	1 071	807	18 551	15 105	1 341	54 650	53 724
Nebraska .....	387	3 988	3 364	108 619	95 973	6 439	217 153	209 589
Nevada .....	175	2 167	1 782	50 309	41 668	2 890	135 874	131 025
New Hampshire .....	252	2 165	1 763	42 504	34 875	2 685	124 076	122 125
New Jersey .....	1 519	14 437	11 393	305 536	249 192	20 522	924 160	891 932
New Mexico .....	330	2 728	2 208	50 671	40 687	4 007	139 828	132 306
New York .....	2 563	46 746	37 984	809 195	660 827	67 534	2 317 236	2 279 987
North Carolina .....	1 136	11 384	9 576	160 454	127 496	17 405	531 883	506 821
North Dakota .....	202	1 538	1 265	25 639	20 610	2 182	84 523	82 155
Ohio .....	1 243	13 523	10 760	307 082	238 740	19 462	796 787	774 348
Oklahoma .....	597	5 656	4 723	102 341	81 011	8 470	300 194	294 366
Oregon .....	459	3 408	2 618	83 320	64 403	4 278	232 908	225 988
Pennsylvania .....	1 443	17 113	13 529	365 702	292 253	23 753	1 010 542	980 418
Rhode Island .....	225	1 581	1 246	30 018	22 853	2 164	84 970	82 672
South Carolina .....	453	10 772	9 663	235 333	214 539	19 740	441 317	425 078
South Dakota .....	171	783	635	9 775	7 351	1 115	32 246	31 585
Tennessee .....	539	7 725	6 474	146 740	119 480	11 536	435 618	427 011
Texas .....	2 797	41 967	34 931	831 756	670 917	63 378	2 430 867	2 384 482
Utah .....	274	2 713	2 253	53 123	43 003	3 952	175 414	172 893
Vermont .....	130	702	578	11 894	9 123	1 058	33 308	32 934
Virginia .....	883	10 235	8 370	180 552	143 749	15 438	467 749	454 942
Washington .....	755	9 693	7 202	256 906	197 640	12 133	710 342	694 385
West Virginia .....	241	2 323	1 941	49 336	42 440	3 413	108 872	107 091
Wisconsin .....	837	6 359	5 081	126 868	100 520	8 667	334 286	324 870
Wyoming .....	176	1 714	1 362	31 619	25 216	2 380	93 917	91 750



1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	O	B	H	M	
15 142 057	10 439 371	704 110	238 316	368 380	3 725 200	356 591	14 221 277	8 748 490	(W)	(W)	(W)	U.S.
106 750	99 330	5 675	1 641	2 749	38 870	5 397	169 186	101 367	5	4	8	Ala.
131 759	61 779	3 402	2 746	7 420	40 860	2 154	139 647	113 534	2	4	4	Alaska
180 797	166 561	10 412	6 344	5 607	59 933	3 640	152 274	91 544	8	2	7	Ariz.
57 610	49 066	2 738	1 355	1 715	19 252	2 303	77 518	40 360	7	6	9	Ark.
1 995 923	1 297 581	133 137	38 605	42 767	448 696	32 939	1 606 896	990 840	1	(W)	1	Calif.
339 698	283 245	14 201	6 674	8 659	67 396	6 160	266 900	152 188	2	1	4	Colo.
185 994	145 013	5 911	1 685	4 308	58 061	3 651	132 769	75 903	3	3	6	Conn.
39 642	20 709	1 122	486	530	9 093	1 210	42 369	28 486	11	9	16	Del.
23 946	(D)	272	592	296	4 938	1 328	64 026	39 110	4	4	(W)	D.C.
707 700	558 719	26 811	13 315	21 706	176 875	18 191	615 518	346 658	1	1	2	Fla.
369 189	230 263	29 380	8 268	8 896	73 471	8 654	285 231	165 891	2	2	4	Ga.
75 062	42 871	3 597	1 555	1 878	19 086	1 687	85 420	50 293	5	4	3	Hawaii
32 552	25 514	1 451	408	593	15 287	1 555	57 834	32 567	10	10	14	Idaho
877 903	422 922	38 310	8 469	13 398	167 986	20 052	852 765	560 732	1	1	2	Ill.
275 953	175 119	12 621	3 983	5 648	77 343	9 234	355 643	230 352	2	1	4	Ind.
103 893	80 764	4 399	1 629	2 548	40 158	4 086	168 950	100 389	6	6	6	Iowa
94 570	63 497	7 441	1 351	2 203	27 579	4 095	146 116	93 462	5	4	8	Kans.
107 153	77 889	6 695	1 071	2 915	33 105	3 869	145 002	81 545	4	3	10	Ky.
426 389	297 002	19 488	6 595	18 719	114 237	10 097	377 648	240 922	3	1	2	La.
31 777	26 530	1 097	673	1 211	9 164	1 272	41 137	22 508	11	10	17	Maine
300 017	271 970	12 204	3 418	5 923	82 856	9 013	325 523	210 071	2	1	3	Md.
383 501	253 829	15 774	3 507	9 265	78 957	7 470	293 572	167 609	2	1	4	Mass.
444 197	300 948	21 479	7 980	8 919	111 870	12 020	496 947	310 091	2	1	4	Mich.
301 844	210 142	6 649	3 663	4 835	60 649	8 047	337 043	210 310	2	1	6	Minn.
56 342	42 950	4 030	1 148	2 722	24 217	2 006	69 278	36 319	5	5	9	Miss.
337 438	241 532	11 566	6 017	5 780	58 786	7 498	288 680	185 991	2	1	2	Mo.
32 652	24 965	926	435	1 130	13 098	1 165	50 447	29 023	13	9	26	Mont.
126 239	85 447	7 564	4 203	8 217	70 362	4 208	242 617	166 851	3	3	1	Nebr.
81 414	51 399	4 849	1 503	1 819	18 898	1 410	77 272	43 802	5	3	5	Nev.
67 117	56 995	1 951	607	884	47 891	912	34 572	16 826	5	4	13	N.H.
524 347	374 138	32 227	7 178	10 708	126 190	9 510	390 875	248 417	2	1	6	N.J.
66 225	69 412	7 522	1 117	3 652	26 444	2 369	82 364	45 015	5	5	12	N. Mex.
1 402 210	916 114	37 248	11 968	22 953	316 159	24 219	1 037 085	676 893	(W)	(W)	3	N.Y.
245 957	270 258	25 062	2 938	7 808	76 278	11 224	330 236	180 300	2	2	5	N.C.
43 052	41 088	2 368	814	978	19 245	1 203	50 035	29 218	10	10	17	N. Dak.
479 395	320 930	22 438	7 700	7 656	108 079	13 968	595 561	363 524	1	1	3	Ohio
176 338	126 600	5 828	2 488	7 522	48 952	4 404	152 206	84 683	4	3	7	Okla.
135 340	93 914	6 920	2 963	2 304	41 698	4 345	191 447	117 135	4	3	7	Oreg.
585 332	409 198	30 123	10 649	13 571	157 106	16 204	652 093	412 718	1	1	2	Pa.
50 907	32 768	2 298	530	680	11 667	1 244	48 781	28 237	8	5	9	R.I.
300 663	128 036	16 239	3 276	7 363	43 436	6 770	184 439	116 870	1	1	4	S.C.
16 083	(D)	661	293	632	7 861	960	34 254	20 847	16	13	15	S. Dak.
235 876	199 277	8 607	3 043	6 275	65 605	7 620	268 486	160 191	2	1	4	Tenn.
1 412 800	1 013 176	46 385	25 302	46 836	321 217	28 389	1 052 188	639 241	1	(W)	1	Tex.
93 729	81 803	2 520	2 095	2 455	23 191	2 107	86 867	56 522	5	3	8	Utah
17 149	16 795	374	328	705	6 205	570	17 676	9 297	12	11	12	Vt.
272 070	193 253	12 807	5 021	7 740	71 309	8 993	306 496	175 053	2	2	3	Va.
459 549	246 749	15 957	6 187	7 394	90 888	7 738	352 056	212 946	3	1	3	Wash.
72 994	34 896	1 781	673	1 241	22 929	1 993	70 514	44 102	6	6	10	W. Va.
199 426	137 222	9 416	2 258	4 435	52 006	6 320	275 535	166 562	6	2	4	Wis.
57 573	37 460	2 167	1 553	2 174	19 741	1 119	43 294	25 187	6	5	8	Wyo.

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
<b>Total construction receipts</b> .....	<b>25 773 571</b>	<b>14 221 277</b>	<b>(W)</b>	<b>(W)</b>
Building construction .....	19 603 492	10 496 389	(W)	(W)
Single-family houses .....	1 981 425	1 708 588	1	1
Apartment buildings with two or more apartments .....	984 896	718 227	1	1
Other residential buildings .....	545 773	269 233	1	1
Industrial buildings and warehouses .....	4 966 119	3 183 315	(W)	1
Office and bank buildings .....	6 565 571	1 385 703	(W)	1
Stores, restaurants, public garages, and automobile service stations .....	1 745 621	957 283	1	1
Religious buildings .....	202 225	159 535	3	2
Educational buildings .....	791 001	809 538	1	1
Hospitals and institutional buildings .....	1 284 919	959 928	1	(W)
Amusement, social, and recreational buildings .....	224 953	137 048	2	2
Other nonresidential buildings .....	310 989	207 991	2	4
Nonbuilding construction .....	4 292 093	2 834 576	(W)	(W)
Highways, streets, and related facilities .....	534 066	307 529	2	1
Power and communication transmission lines, towers, and related facilities .....	1 337 235	1 170 283	1	1
Blast furnaces, petroleum refineries, and chemical complexes .....	400 631	207 697	(W)	1
Power plants .....	1 026 264	381 323	(W)	(W)
Sewage treatment and water treatment plants .....	343 809	262 525	1	1
Other nonbuilding construction .....	650 088	505 219	(W)	5
Construction work, n.s.k. ....	1 877 986	890 595	2	2

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The following abbreviations and symbols are used in the tables in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.



